

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name	
PO038513	ACI001-VC	1	1	Net 30	MT-HRS-P-0.500	Hot Rolled Steel Plate 0.500" (44W) receive sf				16	12/7/2017	16		S017914	Stock	12/6/2017	\$ 13.91 / sf	0		\$222.62	Acier Ouellette Inc.	
		2			MT-HRS-P-0.375	Hot Rolled Steel Plate 0.375" (44W) receive sf				32		32		S017915	Stock	12/6/2017	\$ 11.37 / sf	0		\$363.72	Acier Ouellette Inc.	
		3			MT-HRS-P-0.188	Hot Rolled Steel Plate 0.188" (44W) receive sf				16		16		S017916	Stock	12/6/2017	\$ 5.53 / sf	0		\$88.48	Acier Ouellette Inc.	
		4			MT-1010-025X05.000	1010-1025 Steel Bar .825 X 5.000 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A568/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft				6		6		S017917	Stock	12/6/2017	\$ 18.34 / ft	0		\$110.06	Acier Ouellette Inc.	
		5			MT-4140QT-R1.250	MT-4140 QT-R1.250				12		12		S017918	Stock	12/6/2017	\$ 6.51 / ft	0		\$78.07	Acier Ouellette Inc.	
Total:										66		82									\$681.39	





# DELIVERY - CLIENT

ACIER OUELLETTE INC.

935, Boul. du Hâvre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

CO00064891

Customer N° CLI0001056  
Date 2017/11/30  
Delivery date 2017/12/04  
Your order N° 038513  
Processed by Josianne Bourdon  
Salesman  
Carrier OUELLETTE VALLEYFIELD  
Credit Terme Net 30 Days

## Billed to

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

## Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction	Product Description	Weight	Qty	U/M	P/S NB		Internal Use Only			
					CMD	EXP	B/O	IN	I	S C
1	PLATE 44W 1/2 RANDOM P44-12-V 4062 1 X 4' X 4' HEAT COUPE AU FEU FEU 3	326.40	16.00	PI2 \$CLB		4x4				
2	PLATE 44W 3/8 RANDOM P44-38-V 4116 1 X 4' X 8' HEAT COUPE AU FEU FEU 3	244.80	16.00 32.5	PI2 \$CLB		4x8				

## Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 571.20

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature				Date			
Y M D				Y M D			

Total (\$CAD)



## DELIVERY - CLIENT

### ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

CO00064889

Customer N°  
CLI0001056

Date  
2017/11/30

Delivery date  
2017/12/05

Your order N°  
038513

Processed by  
Josianne Bourdon

Salesman

Carrier  
OUELLETTE VALLEYFIELD

Credit Terme  
Net 30 Days

Page  
1

#### Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

#### Shipped to

, Ontario,

Alt : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
1		FLAT CR 5/8 X 5 1018 RANDOM FCR-585-V 2957 1 X 6' HEAT	63.75	6.00	PI_\$CLB		12.1				
		TRANSIT ST-JEROME LE 04/12									
		COUPE A LA SCIE SCIE 1		1.00	UN						
3		ROUND 4140 HEAT TREAT 1 1/4 RANDOM R4140-114H-V 4897 1 X 12' HEAT	50.06	12.00	PI_\$CLB		12.1				

Sept-12-6

NIR : R-109516-6

Next Page...



## DELIVERY - CLIENT

### ACIER OUELLETTE INC.

935, Boul. du Hâvre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

CO00064889

Customer N°

2017/11/30

Delivery date

2017/12/05

Your order N°

038513

Processed by

Josianne Bourdon

Salesman

OUELLETTE VALLEYFIELD

Net 30 Days

2

### Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Credit Terme

Page

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S C
COUPE A LA SCIE SCIE 1		1.00	UN						
4 PLATE 44W 3/16 RANDOM P44-316-V 4105	122.40	16.00	PI2_\$CLB						
1 X 4' X 4' HEAT SHEAR CUT SHEAR 2		1.00	UN						

### Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (25% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 236.21

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Date

Total (\$CAD)



# ACIER OUELLETTE INC.

935, Boul. du H vre  
Salaberry de Valleyfield (Qu bec) J6S 5L1  
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

## Quotation

SOU0072770

### Billed to

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

### Customer N 

CLJ0001056

### Date

2017/11/22

### Revision N 

0

### Prices valid until

2017/11/29

### Your Order N 

### Processed by

BERNARD

### Salesman

JOSIANNE

### Carrier

OUELLE SDV

### Credit Terms

Net 30 Days

### Page

1

Product N� and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
PLATE 44W 1/2 RANDOM P44-12-V 4062 1 X 4' X 4' P & O NOT AVAILABLE IN 1/2" COUPE AU FEU FEU 3 STOCK	326.40	16.00 PI2_\$CLB	16.00 PI2		1.00	222.620	222.62
PLATE 44W 3/8 RANDOM P44-38-V 4116 1 X 4' X 8' P & O NOT AVAILABLE IN 3/8" COUPE AU FEU FEU 3 STOCK	244.80	16.00 PI2_\$CLB	16.00 PI2		1.00	181.860	181.86
PLATE 3/16 P & O 1 X 4' X 8' 4.5 DAYS N 187.1 44.8	0.00	1.00 UN	1.00 UN		1.00	240.000	240.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE				\$			3.95
Total Weight (Lbs)		571.20					

### Important

This offer is based on availability and current pricing conditions that may be revised upon  
pr sentation de l' volution des prix de l'acier sur le march .  
This offer is subject to conditions of credit approval.  
Cet offre est soumise aux conditions d'approbation du cr dit.

Approved and Accepted by :

Date :

### Sub-total

648.43

TVH-13 84.30

### Total (\$CAD)

732.73

## ACIER OUELLETTE INC.

935, Boul. du Hâvre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

## Quotation

SOU0074081

### Billed to

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

### Customer N°

CLI0001056

### Date

2017/11/29

### Revision N°

0

### Prices valid until

2017/12/06

### Your Order N°

### Processed by

BERNARD

### Salesman

JOSIANNE

### Carrier

OUELLE SDV

### Credit Terms

Net 30 Days

### Page

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT CR 5/8 X 5 1018 RANDOM FCR-585-V <b>2957</b> 1 X 6' 2-3 DAYS COUPE A LA SCIE SCIE <b>1</b>	63.75	6.00	PI_\$CLB	6.00	PI		1.00	110.060	110.06
PLAT 4140 1/2 X 4 HT <b>N</b> 1 X 6' OFFER HT 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	165.000	165.00
ROUND 4140 HEAT TREAT 1 1/4 RANDOM R4140-114H-V <b>4897</b> 1 X 12' STOCK OFFER HT COUPE A LA SCIE SCIE <b>1</b>	50.06	12.00	PI_\$CLB	12.00	PI		1.00	78.070	78.07
ROUND 4130 5/16 <b>N</b> NON-DISPONIBLE OFFER	0.00	1.00	UN	1.00	UN	0.00	1.00		0.00
ROUND 4140 ANNEALED 5/16 RANDOM R4140-516A-V <b>4971</b> 1 X 20' R/L 2-3 DAYS	5.22	20.00	PI_\$CLB	20.00	PI		1.00	12.370	12.37
PLATE 44W 3/16 RANDOM P44-316-V <b>4105</b> 1 X 4' X 4' STOCK SHEAR CUT SHEAR <b>2</b>	122.40	16.00	PI2_\$CLB	16.00	PI2		1.00	88.480	88.48
SURCHARGE ENERGETIQUE <b>FRAIS_ENERGETIQUE</b>			\$						3.95
<b>Total Weight (Lbs)</b>		241.43							

### Important

This offer is based on availability and current pricing conditions that may be revised upon preparation of the order.  
L'offre est basée sur la disponibilité et les conditions de prix de l'acier sur le marché.  
This offer is subject to credit approval.  
L'offre est soumise à l'approbation du crédit.

Approved and Accepted by :

Date :

### Sub-total

457.93

TVH-13 \* 59.53

### Total (\$CAD)

517.46

## Chantal Lavoie

---

**From:** Daniel Paquette  
**Sent:** Wednesday, November 29, 2017 8:59 AM  
**To:** Chantal Lavoie  
**Subject:** FW: A36 PICKLED IN OIL Ref; RBW6505G00831-3G

Use DWG. MT-HRS-P. This is for "non" pickled in oil (normal steel) Scott will deviate the drawing until we can figure out what to do in the future. Thanks.

Ex; MT-HRS-P-0.500

Numbers are not in PLEX yet I will have them put in and let you know ASAP.

**From:** Daniel Paquette  
**Sent:** Wednesday, November 22, 2017 11:42 AM  
**To:** Chantal Lavoie <clavoie@dartaero.com>  
**Subject:** A36 PICKLED IN OIL Ref; RBW6505G00831-3G

Can you order this material please. Thanks.

0.500 thick 4' X 4' SHEET

0.375 thick 4' X 4' SHEET

0.187 thick 4' X 4' SHEET

One of each please.

**DANIEL PAQUETTE**  
*Production Engineering Coordinator*

**DART AEROSPACE**  
T 1 613 632-5200 > 236  
F 1 613 632-5246  
1 800 556- 4166  
[www.dartaerospace.com](http://www.dartaerospace.com)







Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO038513

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO038513

**PO Date:** 11/29/17

**Due Date:** 12/7/17

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Baker, Diane  
Phone: dbaker@dartaero.com

**E-MAILED**  
NOV 30 2017

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** quotation no, sou0072770,sou0074081

Items									
Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	MT-HRS-P-0.500	Hot Rolled Steel Plate 0.500" (44W) receive sf	Firmed	12/7/17	16 sf	0 sf	16 sf	\$13.91375/sf	\$222.62
2	MT-HRS-P-0.375	Hot Rolled Steel Plate 0.375" (44W) receive sf	Firmed	12/7/17	16 sf	0 sf	16 sf	\$11.36625/sf	\$181.86
3	MT-HRS-P-0.188	Hot Rolled Steel Plate 0.188" (44W) receive sf	Firmed	12/7/17	16 sf	0 sf	16 sf	\$5.53/sf	\$88.48
4	M1018B0.625X05.000	1010-1025 Steel Bar .625 X 5.000 MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40- 21 OR 38W/44W/50W/60W/70W receive ft	Firmed	12/7/17	6 ft	0 ft	6 ft	\$18.34333/ft	\$110.06
5	MT-4140QT-R1.250	MT-4140 QT-R1.250	Firmed	12/7/17	12 ft	0 ft	12 ft	\$6.505833/ft	\$78.07
<b>Grand Total:</b>								<b>\$681.09</b>	

## Order Notes

### Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.



ACIER OUELLETTE INC.

935, Boul. du Hâvre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

## Order - Sales

Copy

CO00064891

### Billed to

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

, Ontario,  
Att: CHANTAL LAVOIE Tél.: 613-632-5200  
Delivery Route 5

Page 1

Carrier  
Credit Terme

OUELLETTE VALLEYFIELD  
Net 30 Days

Customer N°

CL10001056

Date

2017/11/30

Delivery date

2017/12/04

Your order N°

038513

Processed by

Josianne Bourdon

Salesman

Product Description				Weight		Qty	U/M	PCS NB			Internal Use Only				
								CMD	EXP	B/O	IN	I	S	C	OUT
1 PLATE 44W 1/2 RANDOM P44-12-V 4062 1 X 4' X 4' HEAT 711852 COUPE AU FEU 3 FEU 4116				326.40	16.00	P12_\$CLB	1.00								
2 PLATE 44W 3/8 RANDOM P44-38-V 244.80				16.00	PI2_\$CLB	1.00									
1 X 4' X 8' HEAT 7093C4-S1 COUPE AU FEU 3 FEU 1.00 SURCHARGE ENERGETIQUE 3 FRAIS_ENERGETIQUE \$ 0.00															

Conditions :

Total Weight (LBS) : 571.20

NIR : R-109516-6

Delivery Route 5

Page 1

INCL 30 Days

Total Weight (LBS) : 571.20

NIR : R-109516-6

**Conditions :**  
All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the respect with this contract will read to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within 15 (15) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% reworking charge.

Prepared By : Verified By :

Delivered By : Time

Customer's Signature

Y M D

Total (\$CAD)

461.53

Deposit

0.00

Balance

461.53

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018BO.625x05.000  
DATE: DEC 07 2017

PO / BATCH NO.: 038513/5017917


MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 61  
 QUANTITY INSPECTED: 61  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625  
THICKNESS RECEIVED: .625  
SHEET SIZE ORDERED: N/A  
SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	Hard tooling use only
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	Heat # KYS13683
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

<b>QC 18 INSPECTION</b>		<b>ENGINEERING SIGNOFF (if required)</b>	
INSPECTED BY:	 <div style="text-align: center;">8 9-30</div>	SIGNED OFF BY:	
DATE:	DEC 07 2017	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018A-750W-125  
 DATE: DEC 07 2017

PO / BATCH NO.: 038507/5018265

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 20"  
 QUANTITY INSPECTED: 20"  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750  
 THICKNESS RECEIVED: .750  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y N	— Dark tooling use only <sup>was</sup> 8 + 10
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	Heat # 52074320/04
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

<b>QC 18 INSPECTION</b>		<b>ENGINEERING SIGNOFF (if required)</b>	
INSPECTED BY: <u>[Signature]</u>		SIGNED OFF BY: _____	
DATE: <u>DEC 07 2017</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018 B0.500 X 01.000

PO / BATCH NO.: 038507/5018266

DATE: DEC 07 2017

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12"  
 QUANTITY INSPECTED: 12"  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500  
 THICKNESS RECEIVED: 0.500  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	— Dert tooling use only
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	Heat # 588829
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> DATE: <u>DEC 07 2017</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140T-R 1.250

PO / BATCH NO.: 038513/5017918

DATE: DEC 07 2017

MATERIAL CERT REC'D: YES

THICKNESS ORDERED: 1.250

QUANTITY RECEIVED: 12"

THICKNESS RECEIVED: 1.250

QUANTITY INSPECTED: 12"

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Astm 4140</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Heat # 45610914</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.  
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office


QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u>	SIGNED OFF BY: <u>[Signature]</u>	
DATE: <u>DEC 07 2017</u>	DATE: <u>12/12/17</u>	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR  
 SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT  
 MT-4140QT-R [D.DDD]  
 WHERE "D.DDD" = DIAMETER IN INCHES  
 PART NUMBER: EG. 5/8" ROUND BAR = MT-4140QT-R0.625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.09.12	VM	VM

	
TITLE: AISI 4140 Q&T ROUND BAR	
DESIGNED BY: VM 09/14/2017	
CHECKED BY: VM 09/14/2017	
MFG. APPR.: LP 09/14/2017	
DATE: 9/14/2017	
SCALE: NTS WEIGHT 0.0 LBS	
SHEET 1 OF 1	
COPYRIGHT © 2017 BY DART AEROSPACE LTD.	

ECW 17-655

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-HRS-P-0.188  
 DATE: DEC 09 2017

PO / BATCH NO.: 038513/5012916

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 16<sup>ft</sup>  
 QUANTITY INSPECTED: 16<sup>ft</sup>  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.188  
 THICKNESS RECEIVED: 0.188  
 SHEET SIZE ORDERED: 4x4  
 SHEET SIZE RECEIVED: 4x4 4x4

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	44 W
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 442C4
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (If required)
INSPECTED BY: <u>pl</u> DATE: <u>DEC 09 2017</u>	SIGNED OFF BY: <u>5</u> DATE: <u>12/14</u>	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

SPECIFICATION:

PART NUMBER:

EXAMPLE:

HOT ROLLED STEEL PLATE

ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018

MT-HRS-P-[T.TTT]

WHERE T.TTT IS PLATE THICKNESS IN INCHES

MT-HRS-P-0.750

TOLERANCES PER MANUFACTURER SPECIFICATIONS

REV	DESCRIPTION	ECN #	DATE	BY	APPROVED
B	REMOVED LENGTH AND WIDTH DIMENSIONS	17-875	28/09/2017	SAC	WM

<b>DART</b> AEROSPACE		Hemel Hempstead, Chelmsford, Essex, CM1 3NS	
TITLE <b>HOT ROLLED STEEL PLATE</b>			
DWG NO		REV	
DESIGN BY		MT-HRS-P	
DRAWN BY		SAC 09/02/2017	
CHECKED		SAC 09/02/2017	
APPROVED		SAC 09/02/2017	
DATE		09/02/2017	
SCALE		N/A	
SHEET		1 OF 1	
COPYRIGHT © 2017 BY DART AEROSPACE LTD			
THIS DOCUMENT IS UNCLASSIFIED AND NOT FOR DISTRIBUTION OUTSIDE THE COMPANY. IT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

Customer P.O.	B94089	Sales Order	102711.1
Product Group	Cold Finish Bar	Part Number	340201
Grade	1018 ASTM A108	Lot #	X1100035
Size	Flat 0.6250x5.0000 (0080)	Heat #	KYS13683
Product	FL 0.6250" x 5.0000" 1018 CD	B.L. Number	X1-100425
Description	CF Grade 1018	Load Number	X1-100367
Customer Spec		Customer Part #	V732211

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Part Detail: FL 0.6250" x 5.0000" 1018 12-R Cold Drawn  
Process: Cold Drawn

C	Mn	P	S	Si	Cu	Cr	Ni	Mo	V	Cb
0.16%	0.65%	0.010%	0.023%	0.22%	0.23%	0.11%	0.08%	0.030%	0.0020%	0.002%

Melting Mill: KENTUCKY	Country of Melting: USA	Grain Practice: COARSE
Reduction Ratio 7.7 :1	Country of Rolling: USA	Rolling Mill: KENTUCKY
Specification Comments:		

1. Material certifies to ASTM A108 - 13 (unless otherwise noted) for Standard Cold Finished Bars
2. No welding or weld repair was performed on this material.
3. Mercury, radium, or alpha source materials in any form have not been used in the production of this material

MAR 15 2016  
11:56 AM  
11561755

*Chris Kelly*

Chris Kelly

DIVISION METALLURGIST



SIMEC INTERNATIONAL, S.A. DE C.V.



Aseguramiento de la Calidad

CERTIFICADO DE CALIDAD N°  
CERTIFICATE OF QUALITY N°

14-4561B

ACEROS ESPECIALES

CUSTOMER ORDER: 210049

The products supplied are in compliance with the requirements of the order.

CLIENTE

CUSTOMER	Magellan Corporation	GRADO DE ACERO	
N° DE COLADA		STEEL GRADE	4140H / 4142
HEAT N°	45610914	REDIDA	
IDENTIFICACION		SECTION SIZE	1.1/4"
COLOR CODE	Blue and White	PERFIL	
		SHAPE	Round

ANALISIS QUIMICO %

CHEMICAL ANALYSIS % (In accordance to ASTM A751-11) (DI: Caterpillar 1E0038)

C	Mn	Si	P	S	Cr	Ni	Mo	Al	Cu	Sn	P+S	V	D.I	H2(ppm)
.40	.92	.29	.020	.020	.91	.10	.190	.027	.25	.019	.040	.000	5.51	<3ppm

METALOGRAFIA  
METALLOGRAPHY

(In accordance to ASTM E112-12)

TAMANO DE GRANO GRAIN SIZE	DECARBURIZACION DECARBURIZATION	ESTRUCTURA STRUCTURE	(In accordance to ASTM E45-13) INCLUSIONES NO METALICAS NONMETALLIC-INCLUSIONS			
6-8	0.007"	Perlite-Ferrite	A	B	C	D
			2.0T	0.5T	1.0T	1.0T
			0.0H	0.0H	0.0H	0.0H

PROPIEDADES MECANICAS

MECHANICALS PROPERTIES (In accordance to ASTM A370-14)

RESISTENCIA A LA TENSION TENSILE STRENGTH (KSI)	LIMITE DE CEDENCIA YIELD STRENGTH (KSI)	REDUCCION DE AREA REDUCTION IN AREA	% ALARGAMIENTO ELONGATION IN 2" gage	DUREZA HARDNESS
150	Y.P. 0.2%: 138	58.8	19.15	

Reduction ratio= 32.33

HARDNESS (In accordance to ASTM A370-14)

MD RADIUS: N/A HBW

SURFACE: 306.6 HBW

REMARKS:

This is steel was heat treatment (QT) in continuous line heat treat  
Austenitized at 1572 °F By: 38 min Quenched in: Water spray at 84 °F  
Tempered at 1178 °F By: 43.867 min Cooled in air at temperature room. Stress free  
Conform to ASTM A193-10 Grade B7, ASTM A434-06 Class BC, ASME SA193-00 Grade B7,  
AISI 4140 & AISI 4142, ASTM A388-11

OBSERVACIONES:  
OBSERVATIONS

- 1) Steel is free from mercury
- 2) No Repair Welding
- 3) Fine Grain Practice
- 4) Material according with ASTM A29-12, A265-10, A304-11 y A322-07 5) Vacuum Desgased
- 6) Calcium aluminium treated
- 7) Steel is Free From Radioactive Contamination
- 8) Ultrasonic inspection results: ASTM E114-10 Satisfactory
- 9) Electric Furnace
- 10) ASTM E381-01: Macro etch ratings: S=1, R=1, C=1
- 11) Comply with EN 10204: 2004 Inspection certificate 3.1

FECHA  
DATE

14-Ene-2015 11:00

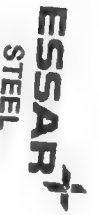
ASEGURAMIENTO DE CALIDAD  
QUALITY ASSURANCE DEPARTMENT

FE.2.4-01/0-

26  
3-9-2018  
Magellan

17.210

29



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No. Item & Date: 8047540 000040 2016/12/17 Shipment No. & Date: 120000776: 2016/12/17

Sold to Customer Name and Address:

LES ACIER TRANSBEC (1987) LTEE

BOUL. LE CORBUSIER #201-4054

LAVAL, Quebec, Canada

H7L 5R2

Ship to Customer Name and Address:

LES ACIER TRANSBEC (1987) LTEE

RUE JEAN COUVE 360

VARENNES, Quebec, Canada

J3X 1P7

TC No., Date & Time:

ESA-365217 2016/12/18 - 01:40:59

Customer PO NO/Item:

BOL NO:

Customer Part No:

Carrier: C P RAIL (CAD FUNDS) - NDYX 381285

Customer Specification: HR STEEL SHEET HSLA 50 / SS To the Chemistry of Multi Cert CSA G40.21 50W (2013) / CSA G40.21 44W (2013) Top Semi Critical Surface Improved Shape Gauge type NOM - 0.0035" / 0.0035"

Supplementary Instructions: Test Cert 1: mtl@collex.ca Test Cert 2: nathalie.legault@essartransbec.com

Imp TR: Test Report for Info Only

ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SYSTEM. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECIPIENT, PLEASE CALL (705) 946-4066 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT. THIS TEST REPORT HAS BEEN GENERATED BY A COMPUTORIZED SYSTEM AND IS VALID WITHOUT A PHYSICAL SIGNATURE.

Customer Use: STRUCTURAL

ISO QUALITY AND ENVIRONMENTAL CERTIFICATE AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

Tensile Tests									
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	YIELD (KSI)
4421CA		DSPC	ALG	0.1800	AR	2	T	F	58.0
4422CA		DSPC	ALG	0.1800	AR	2	T	F	67.0
									73.0
									2"
									30

**WARNING:** THE TEST RESULTS AND VALUES REPORTED HEREIN BECAUSE ONLY THAT THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE SPECIFIED YIELD STRENGTH, AND ON THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE INCLUDING DESIGN OR CALCULATIONS AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

KASHIF REHMAN  
MANAGER METALLURGICAL SERVICES

2/2

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-HRS-P-0.500  
 DATE: DEC 09 2017

PO / BATCH NO.: 038513/5017914

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 16<sup>pkts</sup>  
 QUANTITY INSPECTED: 16<sup>pkts</sup>  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500  
 THICKNESS RECEIVED: 0.500  
 SHEET SIZE ORDERED: 4x4  
 SHEET SIZE RECEIVED: 4x4

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>44W</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Heat # 442264 711852</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u>	SIGNED OFF BY: _____	
DATE: <u>DEC 09 2017</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

SPECIFICATION:

PART NUMBER:

EXAMPLE:

HOT ROLLED STEEL PLATE  
 ASTM A36 OR ASTM A1011 OR <sup>REL</sup>44W OR ASTM A1018  
 MT-HRS-P-[T.TTT]  
 WHERE T.TTT IS PLATE THICKNESS IN INCHES  
 MT-HRS-P-0.750

TOLERANCES PER MANUFACTURER SPECIFICATIONS

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
B	REMOVED LENGTH AND WIDTH DIMENSIONS	17-675	26/09/2017	SAC	WM

 <b>DART AEROSPACE</b>	
<b>HOT ROLLED STEEL PLATE</b>	
DESIGN BY CHECKED BY MFG. APPR. APPROVED DATE	SAC 09/27/2017 SAC 09/27/2017 VM 09/27/2017 JLP 09/27/2017 MWM 10/05/2017 9/27/2017
SCALE NTS	WEIGHT: N/A
SHEET 1 OF 1	
COPYRIGHT © 2017 BY DART AEROSPACE LTD. THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.	

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-HRS-P-0.375  
 DATE: DEC 09 2017

PO / BATCH NO.: 038513/5017915

MATERIAL CERT REC'D: ✓-05  
 QUANTITY RECEIVED: 32<sup>1/2</sup>  
 QUANTITY INSPECTED: 32<sup>1/2</sup>  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375  
 THICKNESS RECEIVED: 0.375  
 SHEET SIZE ORDERED: 4X8  
 SHEET SIZE RECEIVED: 4X8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	(Y) (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	44 W
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 7093C4-51
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AD</u> / <u>5</u> DATE: <u>DEC 09 2017</u> / <u>076214</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

SPECIFICATION:

PART NUMBER:

EXAMPLE:

HOT ROLLED STEEL PLATE

ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018

MT-HRS-P-[T.TTT]

WHERE T.TTT IS PLATE THICKNESS IN INCHES

MT-HRS-P-0.750

TOLERANCES PER MANUFACTURER SPECIFICATIONS

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
B	REMOVED LENGTH AND WIDTH DIMENSIONS	17-675	26/09/2017	SAC	WM

<b>DART</b> AEROSPACE		Hawthorn Ontario Canada	
TITLE HOT ROLLED STEEL PLATE			
DWG NO			
DESIGN BY: SAC 09/08/2017			
DRAWN BY: SAC 09/08/2017			
CHECKED: VM 09/22/2017			
MFG APPR: JDP 09/22/2017			
APPROVED: WM 10/05/2017			
DATE: 9/27/2017			
SCALE: NTS			
WEIGHT: N/A			
SHEET 1 OF 1			
COPYRIGHT © 2017 BY DART AEROSPACE LTD			
THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			



[illegible]

SYC - YN 631 - COU

[illegible]

WE, THE MANUFACTURER, HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40 21/ASTM A572 30W-350W/ GR50 T2 (B06MR 3145) WITH SATISFACTORY RESULTS



NOTE: T. Top, M. Mid, E. End, T. Transverse, L. Longitudinal, P. S. Piece of Site, P. P. Piece of Plate  
 DENNIS Number (Istanbul Head Office) 0352-0005-4260-0070 Trade Registry Number (Istanbul Department  
 Head Office Istanbul Barboirs Map A-171 Son No 6 32746 Akteknir ISTANBUL - TURKEY



with evidence = 20.1%



11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847

Case	Age	Sex	Occupation	Marital Status	Religion	Education	Income	Health	Family Size	Home Ownership	Auto Ownership	Life Insurance	Disability Insurance	Retirement Savings	Charitable Contributions	Political Affiliation	Religious Affiliation	Volunteer Work	Community Involvement	Other
1	25	M	Student	Single	Catholic	High School	\$10,000	Good	2	Rent	No	No	No	No	No	Democrat	Catholic	No	No	No
2	30	F	Teacher	Married	Protestant	College	\$15,000	Good	3	Own	No	No	No	No	No	Democrat	Protestant	No	No	No
3	35	M	Engineer	Married	Jewish	College	\$20,000	Good	2	Own	No	No	No	No	No	Democrat	Jewish	No	No	No
4	40	F	Nurse	Married	Catholic	College	\$18,000	Good	3	Own	No	No	No	No	No	Democrat	Catholic	No	No	No
5	45	M	Manager	Married	Protestant	College	\$22,000	Good	2	Own	No	No	No	No	No	Democrat	Protestant	No	No	No
6	50	F	Homemaker	Married	Catholic	High School	\$12,000	Good	3	Own	No	No	No	No	No	Democrat	Catholic	No	No	No
7	55	M	Retired	Married	Jewish	College	\$25,000	Good	2	Own	No	No	No	No	No	Democrat	Jewish	No	No	No
8	60	F	Retired	Married	Protestant	College	\$28,000	Good	2	Own	No	No	No	No	No	Democrat	Protestant	No	No	No
9	65	M	Retired	Married	Catholic	College	\$30,000	Good	2	Own	No	No	No	No	No	Democrat	Catholic	No	No	No
10	70	F	Retired	Married	Protestant	College	\$32,000	Good	2	Own	No	No	No	No	No	Democrat	Protestant	No	No	No

[illegible]

100

[www.eidex.it.com](http://www.eidex.it.com)



1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

[illegible]

2  
m  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
8

1.  $\frac{1}{2}$   
 2.  $\frac{1}{3}$   
 3.  $\frac{1}{4}$   
 4.  $\frac{1}{5}$   
 5.  $\frac{1}{6}$   
 6.  $\frac{1}{7}$   
 7.  $\frac{1}{8}$   
 8.  $\frac{1}{9}$   
 9.  $\frac{1}{10}$   
 10.  $\frac{1}{11}$   
 11.  $\frac{1}{12}$   
 12.  $\frac{1}{13}$   
 13.  $\frac{1}{14}$   
 14.  $\frac{1}{15}$   
 15.  $\frac{1}{16}$   
 16.  $\frac{1}{17}$   
 17.  $\frac{1}{18}$   
 18.  $\frac{1}{19}$   
 19.  $\frac{1}{20}$   
 20.  $\frac{1}{21}$   
 21.  $\frac{1}{22}$   
 22.  $\frac{1}{23}$   
 23.  $\frac{1}{24}$   
 24.  $\frac{1}{25}$   
 25.  $\frac{1}{26}$   
 26.  $\frac{1}{27}$   
 27.  $\frac{1}{28}$   
 28.  $\frac{1}{29}$   
 29.  $\frac{1}{30}$   
 30.  $\frac{1}{31}$   
 31.  $\frac{1}{32}$   
 32.  $\frac{1}{33}$   
 33.  $\frac{1}{34}$   
 34.  $\frac{1}{35}$   
 35.  $\frac{1}{36}$   
 36.  $\frac{1}{37}$   
 37.  $\frac{1}{38}$   
 38.  $\frac{1}{39}$   
 39.  $\frac{1}{40}$   
 40.  $\frac{1}{41}$   
 41.  $\frac{1}{42}$   
 42.  $\frac{1}{43}$   
 43.  $\frac{1}{44}$   
 44.  $\frac{1}{45}$   
 45.  $\frac{1}{46}$   
 46.  $\frac{1}{47}$   
 47.  $\frac{1}{48}$   
 48.  $\frac{1}{49}$   
 49.  $\frac{1}{50}$   
 50.  $\frac{1}{51}$   
 51.  $\frac{1}{52}$   
 52.  $\frac{1}{53}$   
 53.  $\frac{1}{54}$   
 54.  $\frac{1}{55}$   
 55.  $\frac{1}{56}$   
 56.  $\frac{1}{57}$   
 57.  $\frac{1}{58}$   
 58.  $\frac{1}{59}$   
 59.  $\frac{1}{60}$   
 60.  $\frac{1}{61}$   
 61.  $\frac{1}{62}$   
 62.  $\frac{1}{63}$   
 63.  $\frac{1}{64}$   
 64.  $\frac{1}{65}$   
 65.  $\frac{1}{66}$   
 66.  $\frac{1}{67}$   
 67.  $\frac{1}{68}$   
 68.  $\frac{1}{69}$   
 69.  $\frac{1}{70}$   
 70.  $\frac{1}{71}$   
 71.  $\frac{1}{72}$   
 72.  $\frac{1}{73}$   
 73.  $\frac{1}{74}$   
 74.  $\frac{1}{75}$   
 75.  $\frac{1}{76}$   
 76.  $\frac{1}{77}$   
 77.  $\frac{1}{78}$   
 78.  $\frac{1}{79}$   
 79.  $\frac{1}{80}$   
 80.  $\frac{1}{81}$   
 81.  $\frac{1}{82}$   
 82.  $\frac{1}{83}$   
 83.  $\frac{1}{84}$   
 84.  $\frac{1}{85}$   
 85.  $\frac{1}{86}$   
 86.  $\frac{1}{87}$   
 87.  $\frac{1}{88}$   
 88.  $\frac{1}{89}$   
 89.  $\frac{1}{90}$   
 90.  $\frac{1}{91}$   
 91.  $\frac{1}{92}$   
 92.  $\frac{1}{93}$   
 93.  $\frac{1}{94}$   
 94.  $\frac{1}{95}$   
 95.  $\frac{1}{96}$   
 96.  $\frac{1}{97}$   
 97.  $\frac{1}{98}$   
 98.  $\frac{1}{99}$   
 99.  $\frac{1}{100}$   
 100.  $\frac{1}{101}$   
 101.  $\frac{1}{102}$   
 102.  $\frac{1}{103}$   
 103.  $\frac{1}{104}$   
 104.  $\frac{1}{105}$   
 105.  $\frac{1}{106}$   
 106.  $\frac{1}{107}$   
 107.  $\frac{1}{108}$   
 108.  $\frac{1}{109}$   
 109.  $\frac{1}{110}$   
 110.  $\frac{1}{111}$   
 111.  $\frac{1}{112}$   
 112.  $\frac{1}{113}$   
 113.  $\frac{1}{114}$   
 114.  $\frac{1}{115}$   
 115.  $\frac{1}{116}$   
 116.  $\frac{1}{117}$   
 117.  $\frac{1}{118}$   
 118.  $\frac{1}{119}$   
 119.  $\frac{1}{120}$   
 120.  $\frac{1}{121}$   
 121.  $\frac{1}{122}$   
 122.  $\frac{1}{123}$   
 123.  $\frac{1}{124}$   
 124.  $\frac{1}{125}$   
 125.  $\frac{1}{126}$   
 126.  $\frac{1}{127}$   
 127.  $\frac{1}{128}$   
 128.  $\frac{1}{129}$   
 129.  $\frac{1}{130}$   
 130.  $\frac{1}{131}$   
 131.  $\frac{1}{132}$   
 132.  $\frac{1}{133}$   
 133.  $\frac{1}{134}$   
 134.  $\frac{1}{135}$   
 135.  $\frac{1}{136}$   
 136.  $\frac{1}{137}$   
 137.  $\frac{1}{138}$   
 138.  $\frac{1}{139}$   
 139.  $\frac{1}{140}$   
 140.  $\frac{1}{141}$   
 141.  $\frac{1}{142}$   
 142.  $\frac{1}{143}$   
 143.  $\frac{1}{144}$   
 144.  $\frac{1}{145}$   
 145.  $\frac{1}{146}$   
 146.  $\frac{1}{147}$   
 147.  $\frac{1}{148}$   
 148.  $\frac{1}{149}$   
 149.  $\frac{1}{150}$   
 150.  $\frac{1}{151}$   
 151.  $\frac{1}{152}$   
 152.  $\frac{1}{153}$   
 153.  $\frac{1}{154}$   
 154.  $\frac{1}{155}$   
 155.  $\frac{1}{156}$   
 156.  $\frac{1}{157}$   
 157.  $\frac{1}{158}$   
 158.  $\frac{1}{159}$   
 159.  $\frac{1}{160}$   
 160.  $\frac{1}{161}$   
 161.  $\frac{1}{162}$   
 162.  $\frac{1}{163}$   
 163.  $\frac{1}{164}$   
 164.  $\frac{1}{165}$   
 165.  $\frac{1}{166}$   
 166.  $\frac{1}{167}$   
 167.  $\frac{1}{168}$   
 168.  $\frac{1}{169}$   
 169.  $\frac{1}{170}$   
 170.  $\frac{1}{171}$   
 171.  $\frac{1}{172}$   
 172.  $\frac{1}{173}$   
 173.  $\frac{1}{174}$   
 174.  $\frac{1}{175}$   
 175.  $\frac{1}{176}$   
 176.  $\frac{1}{177}$   
 177.  $\frac{1}{178}$   
 178.  $\frac{1}{179}$   
 179.  $\frac{1}{180}$   
 180.  $\frac{1}{181}$   
 181.  $\frac{1}{182}$   
 182.  $\frac{1}{183}$   
 183.  $\frac{1}{184}$   
 184.  $\frac{1}{185}$   
 185.  $\frac{1}{186}$   
 186.  $\frac{1}{187}$   
 187.  $\frac{1}{188}$   
 188.  $\frac{1}{189}$   
 189.  $\frac{1}{190}$   
 190.  $\frac{1}{191}$   
 191.  $\frac{1}{192}$   
 192.  $\frac{1}{193}$   
 193.  $\frac{1}{194}$   
 194.  $\frac{1}{195}$   
 195.  $\frac{1}{196}$   
 196.  $\frac{1}{197}</$

10

[illegible]

WE THE MANUFACTURER HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN WAS BEING MADE BY THE BASIC OVEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CFA 640 21/ASIN A572 300M-350M/ GRES 72 (ERDEMIR 3246) WITH SATISFACTORY RESULTS



Trade Registry Number (Eleg. Department) 1574727



www.cordenir.com.ir







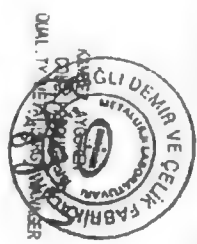
[illegible]

1000  
1001  
1002  
1003  
1004  
1005  
1006  
1007  
1008  
1009  
1010  
1011  
1012  
1013  
1014  
1015  
1016  
1017  
1018  
1019  
1020  
1021  
1022  
1023  
1024  
1025  
1026  
1027  
1028  
1029  
1030  
1031  
1032  
1033  
1034  
1035  
1036  
1037  
1038  
1039  
1040  
1041  
1042  
1043  
1044  
1045  
1046  
1047  
1048  
1049  
1050  
1051  
1052  
1053  
1054  
1055  
1056  
1057  
1058  
1059  
1060  
1061  
1062  
1063  
1064  
1065  
1066  
1067  
1068  
1069  
1070  
1071  
1072  
1073  
1074  
1075  
1076  
1077  
1078  
1079  
1080  
1081  
1082  
1083  
1084  
1085  
1086  
1087  
1088  
1089  
1090  
1091  
1092  
1093  
1094  
1095  
1096  
1097  
1098  
1099  
1100  
1101  
1102  
1103  
1104  
1105  
1106  
1107  
1108  
1109  
1110  
1111  
1112  
1113  
1114  
1115  
1116  
1117  
1118  
1119  
1120  
1121  
1122  
1123  
1124  
1125  
1126  
1127  
1128  
1129  
1130  
1131  
1132  
1133  
1134  
1135  
1136  
1137  
1138  
1139  
1140  
1141  
1142  
1143  
1144  
1145  
1146  
1147  
1148  
1149  
1150  
1151  
1152  
1153  
1154  
1155  
1156  
1157  
1158  
1159  
1160  
1161  
1162  
1163  
1164  
1165  
1166  
1167  
1168  
1169  
1170  
1171  
1172  
1173  
1174  
1175  
1176  
1177  
1178  
1179  
1180  
1181  
1182  
1183  
1184  
1185  
1186  
1187  
1188  
1189  
1190  
1191  
1192  
1193  
1194  
1195  
1196  
1197  
1198  
1199  
1200  
1201  
1202  
1203  
1204  
1205  
1206  
1207  
1208  
1209  
1210  
1211  
1212  
1213  
1214  
1215  
1216  
1217  
1218  
1219  
1220  
1221  
1222  
1223  
1224  
1225  
1226  
1227  
1228  
1229  
1230  
1231  
1232  
1233  
1234  
1235  
1236  
1237  
1238  
1239  
1240  
1241  
1242  
1243  
1244  
1245  
1246  
1247  
1248  
1249  
1250  
1251  
1252  
1253  
1254  
1255  
1256  
1257  
1258  
1259  
1260  
1261  
1262  
1263  
1264  
1265  
1266  
1267  
1268  
1269  
1270  
1271  
1272  
1273  
1274  
1275  
1276  
1277  
1278  
1279  
1280  
1281  
1282  
1283  
1284  
1285  
1286  
1287  
1288  
1289  
1290  
1291  
1292  
1293  
1294  
1295  
1296  
1297  
1298  
1299  
1300  
1301  
1302  
1303  
1304  
1305  
1306  
1307  
1308  
1309  
1310  
1311  
1312  
1313  
1314  
1315  
1316  
1317  
1318  
1319  
1320  
1321  
1322  
1323  
1324  
1325  
1326  
1327  
1328  
1329  
1330  
1331  
1332  
1333  
1334  
1335  
1336  
1337  
1338  
1339  
1340  
1341  
1342  
1343  
1344  
1345  
1346  
1347  
1348  
1349  
1350  
1351  
1352  
1353  
1354  
1355  
1356  
1357  
1358  
1359  
1360  
1361  
1362  
1363  
1364  
1365  
1366  
1367  
1368  
1369  
1370  
1371  
1372  
1373  
1374  
1375  
1376  
1377  
1378  
1379  
1380  
1381  
1382  
1383  
1384  
1385  
1386  
1387  
1388  
1389  
1390  
1391  
1392  
1393  
1394  
1395  
1396  
1397  
1398  
1399  
1400  
1401  
1402  
1403  
1404  
1405  
1406  
1407  
1408  
1409  
1410  
1411  
1412  
1413  
1414  
1415  
1416  
1417  
1418  
1419  
1420  
1421  
1422  
1423  
1424  
1425  
1426  
1427  
1428  
1429  
1430  
1431  
1432  
1433  
1434  
1435  
1436  
1437  
1438  
1439  
1440  
1441  
1442  
1443  
1444  
1445  
1446  
1447  
1448  
1449  
1450  
1451  
1452  
1453  
1454  
1455  
1456  
1457  
1458  
1459  
1460  
1461  
1462  
1463  
1464  
1465  
1466  
1467  
1468  
1469  
1470  
1471  
1472  
1473  
1474  
1475  
1476  
1477  
1478  
1479  
1480  
1481  
1482  
1483  
1484  
1485  
1486  
1487  
1488  
1489  
1490  
1491  
1492  
1493  
1494  
1495  
1496  
1497  
1498  
1499  
1500  
1501  
1502  
1503  
1504  
1505  
1506  
1507  
1508  
1509  
1510  
1511  
1512  
1513  
1514  
1515  
1516  
1517  
1518  
1519  
1520  
1521  
1522  
1523  
1524  
1525  
1526  
1527  
1528  
1529  
1530  
1531  
1532  
1533  
1534  
1535  
1536  
1537  
1538  
1539  
1540  
1541  
1542  
1543  
1544  
1545  
1546  
1547  
1548  
1549  
1550  
1551  
1552  
1553  
1554  
1555  
1556  
1557  
1558  
1559  
1560  
1561  
1562  
1563  
1564  
1565  
1566  
1567  
1568  
1569  
1570  
1571  
1572  
1573  
1574  
1575  
1576  
1577  
1578  
1579  
1580  
1581  
1582  
1583  
1584  
1585  
1586  
1587  
1588  
1589  
1590  
1591  
1592  
1593  
1594  
1595  
1596  
1597  
1598  
1599  
1600  
1601  
1602  
1603  
1604  
1605  
1606  
1607  
1608  
1609  
1610  
1611  
1612  
1613  
1614  
1615  
1616  
1617  
1618  
1619  
1620  
1621  
1622  
1623  
1624  
1625  
1626  
1627  
1628  
1629  
1630  
1631  
1632  
1633  
1634  
1635  
1636  
1637  
1638  
1639  
1640  
1641  
1642  
1643  
1644  
1645  
1646  
1647  
1648  
1649  
1650  
1651  
1652  
1653  
1654  
1655  
1656  
1657  
1658  
1659  
1660  
1661  
1662  
1663  
1664  
1665  
1666  
1667  
1668  
1669  
1670  
1671  
1672  
1673  
1674  
1675  
1676  
1677  
1678  
1679  
1680  
1681  
16

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
84

[illegible]

WITH SATISFACTORY RESULTS



Q3 = Top Middle, E End Transitse, Along Istanbul P.S. Piece of Sice, P.P. Piece of Plate  
E8S5 Member/Istanbul Head Office) 0352-0005-4260-3000 Trade Registry Number/Istanbul Department)  
Head Office: Istanbul Barbaros Mah. Ardig Sok. No. 6 34746 Aligehli/ISTANBUL TURKEY

WIN AGENCY, CORP.

[illegible]

100

U.S. DEPARTMENT OF AGRICULTURE  
BUREAU OF PLANT INDUSTRY  
WASHINGTON, D. C.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

PCSI 100

THE FIELD

WE THE MANUFACTURER HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC DRYEN PROCESS AND TESTED IN ACCORDANCE WITH THE PRACTICE OF THE INDUSTRY WITH SATISFACTORY RESULTS

WITH SATISFACTORY RESULTS



NOTE: 1 Top, M-Middle, E End, T Transverse, L Longitudinal, P S. Piece of Slice, P-P. Piece of Plate  
 AEDSIS Number/(Islandbit Head Office) 0352-0006-4260-0000; Trade Registry Number/(Islandbit Department  
 Head Office, Islandbit Barigatos Main Office, Sol No. 6 3476 Alagaten, ISLANDU - TURKEY



www.sicent17.com ::



DATE \_\_\_\_\_  
CITY \_\_\_\_\_  
STATE \_\_\_\_\_

[illegible]

7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

...ATION PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF  
WITH SATISFACTORY RESULTS

...ATION PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF  
WITH SATISFACTORY RESULTS



2191475:100





DATE 12/24/92  
CERTIFICATE NO. 60206  
PAGE 2C 14

LOT NO. 1 NO NECESSARY COMPOUNDS NO WELD REPAIR  
FULLY FILLED AND FINE GRAIN PRACTICE

10/25/16

ITEM NO	WEIGHT (LBS)	HEAT NO	COL	P.L.	S.A.M.	TENSILE TEST	YIELD	TENSILE & YIELD	EL	A5	A5	V/T	I-PRO	POSITION	AVER	TENSILE	YIELD	HIGH	TEMP	CHEMICAL COMPOSITION, CAST ANALYSIS											
																				C	MN	P	S	SI	AL	CU	NI	AS	FE		
023023543112.400	731559	731559	73155920500112	TT	355.2	568.5	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500120	TT	359.2	568.8	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500710	TT	415.6	565.6	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500120	TT	415.6	565.6	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500530	TT	355.2	565.8	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500530	TT	355.2	565.8	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500410	TT	415.6	569.8	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
023023543112.400	731559	731559	73155920500420	TT	415.6	569.8	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500110	TT	355.2	568.8	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500120	TT	355.2	568.8	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500210	TT	415.6	568.8	35													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500220	TT	415.6	568.8	35													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500310	TT	355.2	568.8	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500410	TT	415.6	568.8	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500420	TT	415.6	568.8	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500110	TT	355.2	568.8	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500120	TT	355.2	568.8	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500210	TT	415.6	568.8	35													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500220	TT	415.6	568.8	35													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500310	TT	355.2	568.8	38													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500410	TT	415.6	568.8	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		
	731569	731569	73155920500420	TT	415.6	568.8	36													18.9	2.01	0.017	0.008	0.173	0.031	0.033	0.042	0.074	45		

ALL THE MANUFACTURED HEREIN CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF A5A G40 21/AS1M A512 30CM-35MM G450 T2 (REPERM 3248)

WITH SATISFACTORY RESULTS



659. Trade Registry Number (Eregli Department): 1574/272



www.eidenic.com

ERDEMİR ÇELİK FABRİKASI  
OUTSTANDING CAPITAL 3.000.000.000 TL

TEST CERTIFICATE  
EN 10204 - 2004 TYPE 3.1

DATE: 25.04.2011  
CERTIFICATE NO: 78502541  
PAGE NO: 1

CUSTOMER: WÜRTH STEEL  
ORDER NO: 7850254103  
DIMENSION: 12.700 X 240 X 4050 (0.500 X 96 X 240 INCH)  
STANDARD & GRADE: CSA G40.21/ASTM A572 300N-350M/GR50 T2 (ERDEMİR 3246)  
PRODUCT TYPE & DEFINITION: LK4 HOT ROLLED HEAVY PLATE WITH MILL EDGE

LOT NO: 1 NO MERCURY COMPOUNDS NO WELD REPAIRS  
FULLY KILLED AND FINE GRAIN STRUCTURE

PRODUCT INFORMATION

TICKET NO: 7850254112 350

HEAT NO: 731565

PLATE NO: 731565

P.P. POS: 731565

YIELD STRENGTH: 395.2

TENSILE STRENGTH: 568.8

ELONGATION: 36

REDUCED SECTION: 36

IMPACT TEST: 10J

TEMP: 20

YIELD: 395.2

TENSILE: 568.8

ELONGATION: 36

REDUCED SECTION: 36

IMPACT TEST: 10J

TEMP: 20

YIELD: 395.2

TENSILE: 568.8

ELONGATION: 36

REDUCED SECTION: 36

IMPACT TEST: 10J

TEMP: 20

YIELD: 395.2

TENSILE: 568.8

ELONGATION: 36

REDUCED SECTION: 36

IMPACT TEST: 10J

TEMP: 20

YIELD: 395.2

TENSILE: 568.8

ELONGATION: 36

REDUCED SECTION: 36

IMPACT TEST: 10J

TEMP: 20

YIELD: 395.2

MECHANICAL PROPERTIES

TENSILE TEST

YIELD STRENGTH

TENSILE STRENGTH

ELONGATION

REDUCED SECTION

IMPACT TEST

TEMP

YIELD

TENSILE

ELONGATION

REDUCED SECTION

IMPACT TEST

TEMP

YIELD

TENSILE

ELONGATION

REDUCED SECTION

IMPACT TEST

TEMP

YIELD

TENSILE

ELONGATION

REDUCED SECTION

IMPACT TEST

TEMP

YIELD

TENSILE

ELONGATION

REDUCED SECTION

IMPACT TEST

TEMP

YIELD

TENSILE

ELONGATION

CHEMICAL COMPOSITION

C

MN

P

S

SI

AL

CU

NI

N

POW

0.165

0.201

0.017

0.008

0.173

0.031

0.033

0.042

0.074

0.165

0.201

0.017

0.008

0.173

0.031

0.033

0.042

0.074

0.165

0.201

0.017

0.008

0.173

0.031



www.erdemir.com.tr

NOTE: THE MANUFACTURER HEREBY CERTIFIES THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF EN 10204 21/ASTM A572 300N-350M/GR50 T2 (ERDEMİR 3246) WITH SATISFACTORY RESULTS

NOTE: T-Top, Middle, E-End, T-Transverse, L-Longitudinal, P-S Piece of Slice, P-P Piece of Plate  
Head Office: Istanbul: Barbaros Mah. Adig. Sok. No: 6 34745 Alibeyli İSTANBUL - TÜRKİYE  
Head Office: İstanbul: Barbaros Mah. Adig. Sok. No: 6 34745 Alibeyli İSTANBUL - TÜRKİYE



RECEIVED FROM THE CUSTOMER  
DATE: 15.05.2024  
SHEET NO: 11

TEST REPORT  
EX-10004 2024 TYPE 3

DATE: 15.05.2024  
CERTIFICATE NO: 20240251  
PAGE NO: 15

CUSTOMER: MİHİR ÇELİK  
ORDER NO: 20240251  
DIMENSION: 13.100 X 2438 X 8058  
STANDARD & GRADE: CSA G40 21/ASTM A572 300M 350M GR50 72 (EDEMİR 3246)  
PRODUCT TYPE & DESCRIPTION: LAM. HOT-ROLLED HEAVY PLATE WITH MILL EDGE

LOT NO: 1  
NO. WEAPONS COMPLAINS NO. YIELD REPAIR  
SULF. KILLED AND FINE GRAIN PRACTICE

PRODUCT INFORMATION

TICKET NO: 20240251  
WEIGHT (MT): 3.093

MECHANICAL PROPERTIES

TICKET NO	WEIGHT (MT)	HEAT NO	COIL NO	PLATE NO	P.P. POS.	SUM. YIELD STRENGTH	TENSILE	TEST	ELI	AG	Y.T.	IMPACT TEST	TEMP	C	MN	P	S	SI	AL	CU	NI	V	W	AS
02370251	3.093	721750	122150201004101	122150201004201	1	420.7	570.7	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		721750	122150201004101	122150201004201	2	420.7	570.7	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		721750	122150201004101	122150201004201	3	420.7	570.7	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CHEMICAL COMPOSITION CAST ANALYSIS

C	MN	P	S	SI	AL	CU	NI	V	W	AS
0.185	1.201	0.017	0.025	0.173	0.031	0.033	0.042	0.074	45	45
0.189	1.201	0.017	0.025	0.173	0.031	0.033	0.042	0.074	45	45
0.199	1.201	0.017	0.025	0.173	0.031	0.033	0.042	0.074	45	45
0.185	1.201	0.017	0.025	0.173	0.031	0.033	0.042	0.074	45	45
0.178	1.221	0.017	0.027	0.160	0.029	0.016	0.034	0.071	45	45
0.175	1.221	0.017	0.027	0.152	0.029	0.016	0.034	0.071	45	45

WE, THE MANUFACTURER, HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE BY THE BASIC OXYGEN PROCESS AND TESTED IN ACCORDANCE WITH THE RULES OF CSA G40 21/ASTM A572 300M-350M/ GR50 72 (EDEMİR 3246) WITH SATISFACTORY RESULTS



NOTE: T: Top, B: Bottom, E: End, T: Transverse, L: Longitudinal, P: S: Piece of Slice, P: P: Piece of Plate  
VERİSİS Number (Istanbul Head Office): 0352-0006-4260-0020, Trade Registry Number (Istanbul Department): 90555, Trade Registry Number (Ereğli Department): 15741212  
Head Office: İstanbul, Balçıs Mah. Arçık Sok. No: 6 34745 Alışveriş İSTANBUL - TURKEY



www.erdemir.com.tr

6-46220  
 944-38416  
 4110  
 48100

DART → 64891  
 944-38416



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No., Item & Date:	8050589 0C0060 2017/03/12	Shipment No. & Date:	1200008792 2017/03/12	TC No., Date & Time:	ESA-385275 2017/03/13 - 01:40:39
Sold to Customer Name and Address:	LES ACIER TRANSBEC (1997) LTEE BOUL LE CORBUSIER #201-4054 LAVAL, Quebec, Canada H7L 5R2	Ship to Customer Name and Address:	LES ACIER TRANSBEC (1997) LTEE RUE JEAN COUTU 350 VARENNES, Quebec, Canada J3X 1P7	Customer PO NO./Item:	G-46220(REV)/6
				BOL NO.:	1200008792
				Cust. Part No.:	
				Carrier:	C P RAIL (CAD FUNDS) - CGLX 12068

Customer Specification: HR STEEL SHEET HSLA SQ / SS To the Chemistry of CSA G40.21 44W (2013) Top Semi Critical Surface Improved Shape Gauge type MIN - 0/+ 0.0100 \*

Supplementary Instructions: Test Cert 1: mir@collex.ca Test Cert 2: nathalie.legault@aciertransbec.com

Insp TIR: Test Report For Info Only

ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES.  
 THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705) 945-4358 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT. THIS TEST REPORT HAS BEEN GENERATED BY A COMPUTERIZED SYSTEM AND IS VALID WITHOUT A PHYSICAL SIGNATURE.

MEETS EN 10204 3.1  
 ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

ALL HEATS FULLY KILLED  
 HEATS INDICATED WITH (\*) MADE IN CANADA FOR NAFTA COUNTRY PREFERENCE AND NAFTA MARKETING PURPOSES

Dimensions (T x W x L)	Batch No.	Heat No.-MS	Quantity	Pcs
0.3650" x 48.000"	XBM9191	7093C4-51	42,184 LB	1

Heat No. (wt%)	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	Al	Nb	V	Ti
7093C4*	0.17	0.87	0.009	0.004	0.030	0.02	0.02	0.03	0.00	0.040	0.017	0.000	0.002

..... CHEMICAL PROPERTIES ..... MECHANICAL PROPERTIES .....

Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	EL SCALE	ELONG(%)
7093C4				0.3650	AR	.2	T	F	56.0	76.0	2"	42

Comp

17/12/11  
 9

KASHIF REHMAN  
 MANAGER METALLURGICAL SERVICES

\*\*\*WARNING\*\*\* THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSES AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.